



37 29 15
30 01 10

5.415
1.20W



2.545
1.02W

FILE NO. P.D.C. #3 - P9.29
 DRAWING NO. 1
 SCALE 1" = 1000'
 MINIMUM DEGREE OF ACCURACY 1/4" @ 200'
 PROVEN SOURCE OF ELEVATION B.M. 747 INT. (2) AND 55/3

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF MINES.

(SIGNED) Paul G. Dean
 R.P.E. # 1856 L.L.S.

PLACE SEAL HERE

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 FORM IV-6 (8-78)



DATE MARCH 27 1980
 OPERATOR'S WELL NO. 3
 API WELL NO. 47-017-2679
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS,") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 970' WATER SHED ELK LICK RUN
 DISTRICT McCLELLAN COUNTY DODD BRIDGE
 QUADRANGLE SMITHBURG 7.5 CENTERPOINT IS' NW
 SURFACE OWNER ROY FERREBEE ACREAGE 141.5
 OIL & GAS ROYALTY OWNER ROY FERREBEE LEASE ACREAGE 141.5
 LEASE NO. _____
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG
 TARGET FORMATION GORDON ESTIMATED DEPTH 3000'
 WELL OPERATOR PETROLEUM DEVELOPMENT DESIGNATED AGENT PETROLEUM DEVELOPMENT CORP.
 ADDRESS 103 E. MAIN ST. BRIDGEPORT, W.Va. 26330 ADDRESS 103 E. MAIN ST. BRIDGEPORT, W.Va. 26330

AUG - 6 1982

OIL AND GAS DIVISION
WV DEPARTMENT OF MINES



IV-35
(Rev 8-81)

State of West Virginia
Department of Mines
Oil and Gas Division

Date _____
Operator's Well No. Three (3)
Farm Roy Ferrebee
API No. 47 - 017 - 2679

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil ___ / Gas X / Liquid Injection ___ / Waste Disposal ___ /
(If "Gas," Production X / Underground Storage ___ / Deep ___ / Shallow ___ /)

LOCATION: Elevation: 970' Watershed ELK LICK RUN
District: McCLELLAN County DODDRIDGE Quadrangle SMITHBURG

COMPANY PETROLEUM DEVELOPMENT CORPORATION
ADDRESS P.O. BOX 26 BRIDGEPORT, WV 26330
DESIGNATED AGENT SAME AS ABOVE
ADDRESS SAME AS ABOVE
SURFACE OWNER ROY FERREBEE
ADDRESS STAR ROUTE, WEST UNION, WV 26456
MINERAL RIGHTS OWNER SAME AS ABOVE
ADDRESS SAME AS ABOVE
OIL AND GAS INSPECTOR FOR THIS WORK _____
ADDRESS _____

Casing Tubing Size	Used in Drilling	Left in Well	Cement fill up Cu. ft.
20-16 Cord.			
13-10"	40	40	circulate
9 5/8			
8 5/8	816	816	circulate
7			
5 1/2			
4 1/2	2960	2960	150 sks
3			
2			
Liners used			

PERMIT ISSUED _____
DRILLING COMMENCED 1/17/81
DRILLING COMPLETED 1/21/81
IF APPLICABLE: PLUGGING OF DRY HOLE ON CONTINUOUS PROGRESSION FROM DRILLING OR REWORKING. VERBAL PERMISSION OBTAINED ON _____

GEOLOGICAL TARGET FORMATION GORDON STRAY/GORDON Depth 2894 feet
Depth of completed well 3020 feet Rotary XX / Cable Tools _____
Water strata depth: Fresh 35 feet; Salt 750 feet
Coal seam depths: 150' & 650' Is coal being mined in the area? no

OPEN FLOW DATA
Producing formation Gordon Pay zone depth 2815-2854 feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow 12 Bbl/d
Final open flow 2.4 Mcf/d Final open flow 2 Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure 800 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation _____ Pay zone depth _____ feet
Gas: Initial open flow _____ Mcf/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ Mcf/d Oil: Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ hours
Static rock pressure _____ psig (surface measurement) after _____ hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

GORDON 195 bbl 20,000 20/40 100 gal. acid MCA 2 lb. sand/gal.
 CO₂ FRAC 30 yd 2815' - 2854'

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fresh and salt water, coal, oil and gas
K.B. - G.L.			0	10'	
Sand			10'	82'	
Sand			82'	129'	
Sand, Shale			129'	150'	
Coal			150'	152'	
Sand, Shale			152'	400'	
Red Rock			400'	470'	
Sand, shale, red rock			470'	650'	
Coal			650'	655'	
Sand, shale, red rock			655'	1040'	
Sand, shale			1040'	2114'	
Big Lime			- 2114'	2176'	
Big Injun			2176'	2240'	
Sand, shale			2240'	2384'	
Weir			2384'	2470'	
Sand, shale			2470'	2591'	
Gantz			- 2591'	2619'	
Sand, shale			2619'	2794'	
<u>Gordon Stray/Gordon</u>			2794'	2854'	
Sand, shale			2854'	3020' TD	

(Attach separate sheets as necessary)

PETROLEUM DEVELOPMENT CORPORATION, BRIDGEPORT, WV 26330

Well Operator

By: John R. Mitchell

Date: _____

Note: Regulation 2.02(i) provides as follows:
 "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including all, encountered in the drilling of a well."



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES

RECEIVED

MAR 31 1980

Oil and Gas Division

OIL & GAS DIVISION
DEPT. OF MINES

OIL AND GAS WELL PERMIT APPLICATION

TO THE DEPARTMENT OF MINES,
Charleston, W. Va.

DATE 3/28/80

Surface Owner Roy Ferrebee
Address Star Route, West Union WV 26456

Company Petroleum Development Corporation
Address P.O. Box 26 Bridgeport, WV 26330

Mineral Owner Same as above
Address _____

Farm Roy Ferrebee Acres 141.5

Coal Owner Consolidated Coal Company

Location (waters) Elk Lick Run

Address Rts. 48 & 119 Morgantown, WV 26505

Well No. Three (3) Elevation 970'

Coal Operator _____

District McClellan County Doddridge

Address _____

Quadrangle Smithburg

THIS PERMIT MUST BE POSTED AT THE WELL SITE

All provisions being in accordance with Chapter 22, of the W. Va. Code, the location is hereby approved for drilling. This permit shall expire if operations have not commenced by 12-15-80.

INSPECTOR
TO BE NOTIFIED Paul Garrett

ADDRESS 321 Beech St., Clarksburg, WV 26330

PHONE 622-3871

Robert H. [Signature]
Deputy Director - Oil & Gas Division
GENTLEMEN:

The undersigned well operator is entitled to drill upon the above named farm or tract of land for oil and gas, having fee title thereto, (or as the case may be) under grant or lease dated September 13 1978 by Clarence W. Mutchelknaus made to Petroleum Development Corp. and recorded on the 3 day of November 1978 in Doddridge County, Book 105 Page 338

XX NEW WELL _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE
_____ OIL AND GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1969.

The enclosed plat was prepared by a registered engineer or licensed land surveyor and all coal owners and/or operators have been notified as of the above date.

The above named coal owners and/or operator are hereby notified that any objection they wish to make, or are required to make by Section 3 of the Code, must be received by, or filed with the Department of Mines within ten (10) days. *

Copies of this notice and the enclosed plat were mailed by registered mail, or delivered to the above named coal operators or coal owners at their above shown respective address _____ day _____ before, or on the same day with the mailing or delivery of this copy to the Department of Mines at Charleston, West Virginia.

Very truly yours,

PLEASE SUBMIT COPIES OF ALL
GEOPHYSICAL LOGS DIRECTLY TO:

(Sign Name) _____

WEST VIRGINIA GEOLOGICAL AND
ECONOMIC SURVEY
P. O. BOX 879
MORGANTOWN, WEST VIRGINIA 26505
AC-304 - 292-6331

Address
of
Well Operator

Well Operator
PETROLEUM DEVELOPMENT CORPORATION
P.O. Box 26 Street
Bridgeport,
City or Town
West Virginia 26330
State

*SECTION 3. ... If no objections are filed or found by the Department of mines, within said period of ten days from the receipt of notice and plat by the department of mines, to said proposed location, the department shall forthwith issue to the well operator a permit reciting the filing of such plat, that no objections have been made by the coal operators or found thereto by the department and that the same is approved and the well operator authorized to proceed.

BLANKET BOND

47-017-2679 _____ PERMIT NUMBER

"I have read and understand the application requirements as set forth in Chapter 22, Article 4, Section 12-b and will carry out the specified requirements."

Signed by _____

**THIS IS AN ESTIMATE ONLY
ACTUAL INFORMATION WILL BE SUBMITTED ON OG-10 UPON COMPLETION**

PROPOSED WORK ORDER TO X DRILL _____ DEEPEN _____ FRACTURE-STIMULATE _____
 DRILLING CONTRACTOR: (If Known) RESPONSIBLE AGENT:
 NAME UNKNOWN NAME Petroleum Development Corporation
 ADDRESS _____ ADDRESS P.O. Box 26 Bridgeport, WV 26330
 TELEPHONE _____ TELEPHONE 304-842-6256
 ESTIMATED DEPTH OF COMPLETED WELL: 3000' ROTARY X CABLE TOOLS _____
 PROPOSED GEOLOGICAL FORMATION: Gordon
 TYPE OF WELL: OIL XX GAS XX COMB. _____ STORAGE _____ DISPOSAL _____
 RECYCLING _____ WATER FLOOD _____ OTHER _____

TENTATIVE CASING PROGRAM:

CASING AND TUBING SIZE	USED FOR DRILLING	LEFT IN WELL	CEMENT FILL UP OR SACKS - CUBIC FT.
20 - 16			
13 - 10	40'	40'	Circulate
9 - 5 8			
8 - 5 8	800'	800'	Circulate
7			
5 1/2			
4 1/2		2950'	
3			Perf. Top
2			Perf. Bottom
LININ			Perf. Top
			Perf. Bottom

APPROXIMATE FRESH WATER DEPTHS 35' FEET SALT WATER 1750' FEET
 APPROXIMATE COAL DEPTHS 250'
 IS COAL BEING MINED IN THE AREA? NO BY WHOM? _____

TO DRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, \$100.00 PERMIT FEE, PERFORMANCE BOND AND PERMANENT COPY OF PLAT.

TO DRILL DEEPER OR REDRILL:

SUBMIT FIVE (5) COPIES OF OG - 1, SHOWING ORIGINAL PERMIT NUMBER AND PERFORMANCE BOND. ON WELLS DRILLED PRIOR TO 1929, A PERMANENT COPY OF THE PLAT AND THE ORIGINAL WELL RECORD MUST ALSO BE SUBMITTED.

TO FRACTURE - STIMULATE:

OIL AND/OR GAS WELL ORIGINALLY DRILLED BEFORE JUNE 5, 1929, FIVE (5) COPIES OG - 1, PERFORMANCE BOND, PERMANENT PLAT AND ORIGINAL WELL RECORD.

OIL AND/OR GAS WELL ORIGINALLY DRILLED ON AND/OR AFTER JUNE 5, 1929, FIVE COPIES OG - 1, SHOWING ORIGINAL PERMIT NUMBER, AND PERFORMANCE BOND.

Required forms must be filed within ninety (90) days of completion for bond release. Inspector to be notified twenty-four (24) hours in advance.

The following waiver must be completed by the coal operator if the permit is to be issued within ten days of receipt thereof.

WAIVER: I the undersigned, Agent for _____ Coal Company, Owner or Operator of the coal under this lease have examined and place on our mine maps this proposed well location.

We the _____ Coal Company have no objections to said well being drilled at this location, providing operator has complied with all rules and regulations in Articles 4, 5, and 7, Chapter 22 of the West Virginia Code.

For Coal Company

Official Title